

(Translation)

THE KOREAN INDUSTRIAL PROPERTY OFFICE

This is to certify that the following application annexed hereto is a true copy from the records of the Korean Industrial Property Office.

Application Number : Patent Application 36569/1997

Date of Application : July 31, 1997

Applicant : LG Electronics Inc.

Commissioner

(Translation)

[Document Name] Written Application for Patent

[Attention] Commissioner of the Korean Industrial Property Office

[Filing Date] July 31, 1997

[Title of Device] IN-PLANE SWITCHING MODE LIQUID CRYSTAL DISPLAY
DEVICE

[Applicant]

[Name] LG Electronics Inc.

[President] Cha Hong KOO

[Code No.] 11006955

[Postal Code] 150-010

[Address] 20, Yoido-dong, Youngdunpo-ku, Seoul, Korea

[Nationality] KR

[Attorney]

[Name] Sang Gu HA

[Attorney Code] S010

[Tel. No.] 02-548-5229

[Postal No.] 137-040

[Address] Younghwa Bldg. 742-20, Banpo-dong, Seocho-ku, Seoul, Korea

[Attorney]

[Name] Young Wuk HA

[Attorney Code] S085

[Tel. No.] 02-548-5229

[Postal No.] 137-040

[Address] Younghwa Bldg. 742-20, Banpo-dong, Seocho-ku, Seoul, Korea

[Inventor]

[Name] Komatsu Hiroshi

[Postal] 730-782

[Address] Siyoung Apt. 120-506, 368 Hyeonggok-dong, Kumi-shi,
Kyeongsangbuk-do, Korea

[Nationality] KR

[ABSTRACT]

An in-plane switching (IPS) mode liquid crystal display (LCD) device is
5 disclosed, in which a light-shielding electrode is formed in a gate electrode region on a
passivation layer of a common electrode, whereby the light-shielding electrode serves as
a back gate electrode, simultaneously, prevents light of a backlight or the external from
being incident on a semiconductor layer, thereby preventing current leakage. Also, the
common electrode is overlapped with predetermined portions of gate and data lines so
10 that it is possible to avoid disclination by preventing an electric field generated by the
gate and data lines.